

Further and favorable action is solicited.

Respectfully submitted,

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## ATTACHMENT B

Marked Up Replacement Claims

*Following herewith is a marked up copy of each rewritten claim.*

3. (Amended) Adaptive modem according to claims 1 and 2 where the transmitter is a radio transmitter and the receiver is a radio receiver and where the modem includes a radio interface unit characterized in that the modem unit includes a program change function which makes it possible to use in spread spectrum mode over the bandwidth desired.

4. (Amended) A method to select the modulation mode adaptively according to the claim one for each communication route of the adaptive modem, characterized in that the transmitted modulations and modulation methods are selected to different waveforms according to the principle that in reception we get by calculations the wanted or the maximal selectivity of transmitter carrier, amplitude and phase of the modulated waveforms using the algorithm developed from the Fourier Transform and using the wanted sample frequency for the waveforms in data transmission over the telecommunication network interface unit or over the radio interface unit.

6. (Amended) A method according to claims 4 and 5 characterized in that over the telecommunication network or over the radio channels a message is transmitted as a combined calculated and coded sum waveform of several different waveform modulations which are in reception detected to waveforms and using the code information decoded as a message.